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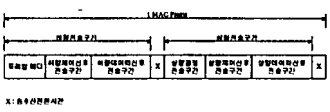
(54) DEVICE AND METHOD FOR CONSTRUCTING MEDIUM ACCESS CONTROL FRAME SUITABLE FOR WIRELESS LAN OF ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING METHOD

(57) Abstract:



PURPOSE: A device and a method for constructing an MAC(Medium Access Control) frame suitable for a wireless LAN(Local Area Network) of an OFDM (Orthogonal Frequency Division Multiplexing) method is provided to effectively process an information transmission between a mobile terminal and a base station. CONSTITUTION: A downward transmission region includes a frame header, a downward control signal transmission region and a downward data signal transmission region. An upward transmission region includes an upward competition transmission region, an upward control signal transmission region and an upward data signal transmission region. The upward competition transmission region is located in a start part of the upward transmission region in order to perform a rapid competition signal process. While implementing hardware, a spare time is secured to process a result of an upward competition section.

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